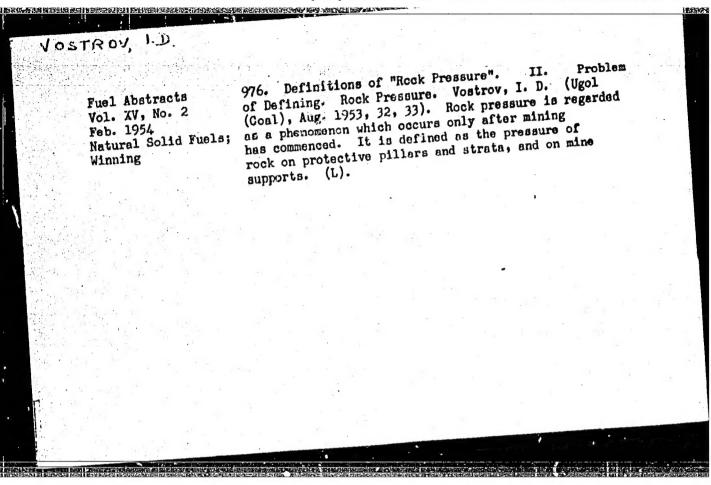


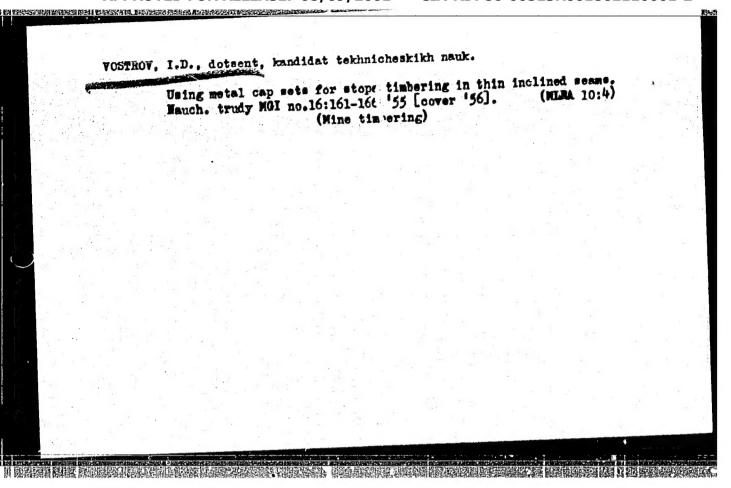
# "APPROVED FOR RELEASE: 08/09/2001 CIA

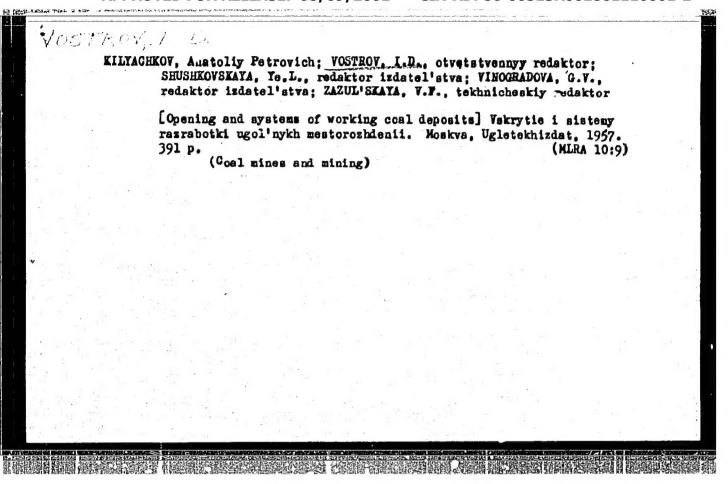
CIA-RDP86-00513R001861110001-2

VOSTROV, I. D. -- "Problems in Use of Planes of Static Action in Mining Fine Flat
VOSTROV, I. D. -- "Problems in Use of Planes of Static Action in Mining Fine Flat
Dropping Seams." Sub 28 Feb 52, Msocow Mining Inst imeni I. V. Stalin. (Dissertation
Or the Degree of Candidate in Technical Sciences.)

So: VECHERNAYA MOSKVA, January-December 1952







KALYUZHNYY, Nikolay Tikhonovich; VIDULIN, Anatoliy Yevdokimovich; VOSTROV,

I.D. otv. red.; ZHUKOV, V.V., red. izd-va; MINSKER, L.I., tekhn.

red.

[Distribution of hard headings in developing coal deposits] Raspolozhenie polevykh vyrabotok pri razrabltke ugol'nykh mestorozhdenii. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 106 p. (MIRA 14:6)

(Coal mines and mining)

WOSTROV, I.D., dots., kand.tekhn.nauk

Investigating reof stability in stopes during Donets Basin flat

Investigating . Nauch. trudy MOI no.18:11-17 '57. (MIRA 11:9)

seam mining. Nauch. strudy MOI no.18:11-17 '57. (MIRA 11:9)

(Donets Basin-Stoping (Mining))

(Mine reof boiting)

SOHIN, S.D., prof.; VOSTROV, I.D., dots., kand.tekhn.nauk

Mine development and order of working Donets Basin flat seams
using the method of advancing longwalls on strike. Hauch. dokl. vys.
using the method of advancing longwalls on strike. Hauch. dokl. vys.
(MIRA 11:9)
shkoly; gor. delo no.3:3-13 '58.

1. Fredstavlena kafedroy razrabotki plastovykh mestorozhdeniy
Moskovskogo gornogo instituta im. I.V. Stalina.
(Donets Basin--Ocal mines and mining)

15-57-7-10183

Referativnyy zhurnal, Geologiya, 1957, Nr 7, Translation from:

p 219 (USSR)

Vostrov, I. D. AUTHOR:

Application of Present Metal Caps for Mine Timbers in Working Thin Slightly Inclined Strata (K voprosu o TITLE:

primenenii metallicheskikh verkhnyakov prizaboynoy krepi ochistnykh zaboyev pri razrabotke tonkikh

pologopadayushchikh plastov)

Nauch. tr. po vopr gorn. dela, Mosk. gorn. in-t, 1956, sb. Nr 16, pp 161-166 PERIODICAL:

The present article presents operational analyses ABSTRACT:

for four types of metal caps to be used on mine timbers. These types are as follows: 1) rigid; 2) jointed; 3) cantilever; 4) spring-type. The caps are considered in relation to the state of the roof covering, namely: 1) the presence of irregularities

Card 1/2

STATES THE LET INVESTIGATION OF THE PARTY OF THE PROPERTY OF THE PARTY OF THE PARTY

15-57-7-10183

Application of Present Metal Caps (Cont.)

on the surface; and 2) the extent of fissures. Rigid caps are recommended for use on stable roof rock without irregularities, where mechanical methods of bracing are employed. Jointed caps may also be used on stable rock (but they are more difficult to use). Spring-type caps insure the most favorable conditions for support Spring-type caps insure the most favorable conditions for support of the roof. The low resistance of the cantilever type of caps to of the roof limits their use to stable rock. Thus the area of usage deformation limits their use to stable rock. New types of caps, suitable for of available caps is restricted. New types of caps, suitable for bracing roofs of average stability, should be developed.

G. A. Teplitskiy Card 2/2

B. 高生的共产的人类,我们就是对对自己的公司的对抗,我们就是不是一个人,我们就是一个人,我们也不是一个人,他们就是一个人,他们就是一个人,他们就是一个人,他们

SONIN, S.D., prof.; SELETSKIY, R.A., dotsent; YOL TROV, I.D., dotsent

Advancing and retreating systems for mining levels in Donets Basin flat seams. Nauch. dokl. vys. shkoly; gor. delo no.1:15-26 '58. (MIRA 11:6)

1. Predstavlena kafedroy razrabotki plastovykh mestorozhdeniy Moskovskogo gornogo instituta im. I.V. Stalina. (Donets Basin--Mining engineering)

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2

VOSTROV, I.D., kand.tekhn.nauk.

Use of UKT-1 cutter loaders in mines of the "Rostorugol" (Coal mining machinery)

(Coal mining machinery)

(Donets Basin--Coal mines and mining)

MISEUSTIN, Ye.N.; VOSTROV, I.S.; NIKITIN, D.I.; YEROFKYEV, N.S.

Role of aerobiosis in the formation of humic compounds. Mikrobiologica 34 no.3:497-501 My-Je 165.

(MIRA 18:21)

1. Institut mikrobiologii AN SSSR.

VOSTROV, I. S.

MISHUSTIN, Ye.W.; MIRZOYEVA, V.A.; VOSTROV, I.S.

MISHUSTIN, Ye.W.; MIRZOYEVA, Y.A.; VOSTROV, I.S.

MISHUSTIN, Y.A.

MIS

USSR / Soil Science. Biology of Soils!

J-3

: Ref. Zhur - Biologiya, No 17, 1958, No. 77396 Abs Jour

: Mishustin, Ye. N.; Mirzoyeva, V. A.; Wostrov, I. S. : Shadrin Experimental Station AS USSR Author

: influence of Cultivation of Chernozem Soil by the Inst

T. S. Malitsev Mothod on Its Microflora and Biodynamics Title

: Izv. AN SSSR, ser. biol., 1957, No 4, 466-479 Orig Pub

Abstract

: The biological activity of chernozems cultivated at a depth of 50 cm and of the same soils cultivated by the usual method at a depth of 25-30 cm was compared at the Shadrin Experimental Station (1953-1956). Samples were taken of soils that were in a follow state and of those occupied by crops of spring wheat and vetch-cat mixture. It is shown that deep nonbanking cultivation of the soil activates the course of the microbiological processes in the soil. Conditions are created for the development of

Card 1/2

USSR / Soil Science. Biology of Soils.

J-3

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77396

aerobic and facultative-anaerobic groups of microorganisms in deep players of the soil (up to 50 cm). With common cultivation at this depth, microbiological activity is suppressed. The processes of nitrification and separation from the soil of CO<sub>2</sub> are significantly strengthened. The acidio-recovery potential has several features connected with the original spread of the root system of the plants. The positive effect of cultivation of soil according to the Mal'tsev method endured for three years. The authors consider that nonbank plowing can be recommended only for regions with a sufficient quantity of precipitation. Bib. 26 titles. -- G. H. Nesterova.

Card 2/2

22.

MISUSTIN, E.N.; VOSTROV, I.S.

Biological principles of tillage. Rost vyroba 9 no.7/8: 752-756 JI-Ag '63.

1. Mikrobiologicky ustav Akademie ved SSSR, Moskva.

YEROFEYEV, N.S.; VOSTROV, I.S.

Use of straw as an immediate fertilizer. Izv. AN SSSR. Ser. biol. no.5:668-676 S-0 '64. (MIRA 17:9)

l. Institut mikrobiologii AN SSSR, Moskva.

VOSITROV, I.S.

Effect of straw remnants on crops. Izv. AN SSSR. Ser. biol. (MIRA 17:2) no.61906-913 N-D '63.

1. Institute of Microbiology, Academy of Sciences of the U.S.S.R., Moscow.

VOSTROV, I.S.

BEATER BOOK BED SELECTED IN THE SELECTED SECURIOR SECURIO

Effect of the Mal'tsev tillage system on microbiological indices and biological activeness of soils. Trudy Inst. mikrobiol. no.7: 205-213 '60. (MIRA 14:4)

1. Institut mikrobiologii AN SSSR. (SOIL MICRO-ORGANISMS)

(TILLAGE)

# Use of a phase plane method for studying nonlinear discrete systems. Izv. AN SSSR, Otd. tekh. nauk. Energ. i avtom. no.3: 31-4,5 My-Je '61. (Automatic control) (Pulse techniques (Electronics))

- 1. VOSTROV, P. P.
- 2. USSR (600)
- 4. Vegetable Gardening
- 7. Vegetable gardening without transplanting, Sad i og., No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

VOSTROV, V. (Alma-Ata) kandidat istericheskikh mauk.

Restere the industries and handicrafts of Kasakhstan, Frem.keep.ne.8:
29 Ag 156. (MIRA 9:10)

1.Starshiy nauchayy setrudnik Akademii nauk Kazakhskey SSR.
(Art industries, Kazakh)

### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86

CIA-RDP86-00513R001861110001-2

VoSTROV, V
VoSTROV, V
VoSTROV, V
VoSTROV, V
VoSTROV, V
Vostrov, V

New method for making poles for electric transmission lines.
(HIRA 14:2)
(Electric lines—Poles)

- 1. V. VOSTROV, Eng.
- 2. USSR (600)
- 4. Building
- 7. Publicizing outstanding work methods. Biul. stroi. tekh. 10 no. 1. 1953.

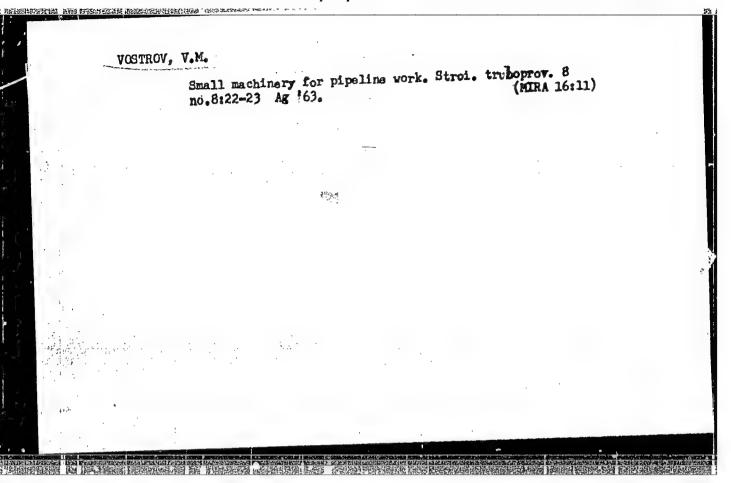
9. Monthly List of Russian Accessions, Library of Congress, April

VOSTROV, V.M., inzh.; GUROVSKIV, N.Ya., nauchnyy red.; PONCMAREV, P.Z., red. izd-va; ABRAMOVA, V.M., tekhn. red.

[Pamphlet on safety measures for the asphalt concrete worker]
Paniatka po tekhnike bezopasnosti dlia asfal'tonshchika. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 22 p.

(Asphalt concrete—Safety measures)

### 



### "APPROVED FOR RELEASE: 08/09/2001

ENTRY OF THE PROPERTY WELL FOR HELD WITH THE PROPERTY OF THE P

22 p.

CIA-RDP86-00513R001861110001-2

VOSTROV, V.M.; CHEKHOVSKAYA, T.P., red.izd-va; BOROVNEV, N.K., tekhm. red.

[Safety regulations for concrete workers] Pamiatka po tekhmike bezopasnosti dlia betonshchika. Izd.2., ispr. Moskva, Gos. izd-vo lit-ry po stroit. arkhit. i stroit. materialam, 1961.

(MIRA 15:3)

(Concrete construction -- Safety measures)

VOSTROV, V.M., inzh. Jig for welding rectangular flanges. Vod. i san. tekh. no.6:
37 Ja 164 (MIRA 18:1)

VOSTROV, V.M.; Inzh.

Scaffolding

Lumber for plastering work of the facades of low buildings. Biul. stroi. tekh. 9 no. 6, 1952.

SO: Monthly List of Russian Accessions, Library of Congress, August

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2

VOSTROV, V.M.

Devices for laying polyethylene pipes. Stroi.truboprov. 8 no.7:
(MIRA 17:2)
25 J1 '63.

KOZLOV, N.N.; SKVORTSOV, V.V.; OBYSOV, A.N.; OSIPENKO, Yu.K.;

KHOKHLOV, B.A., glav. red.; CHUPROV, D.P., nauchnyy red.;

VOSTROV, V.M., red.; DVIZHKOVA, N.M., red.; ZHEBRAKOV,

N.A., red.; ZLATOTSVETOVA, I.I., red.; RAGAZINA, M.F., red.;

FARADZH, N.O., red.; YEGOROVA, M.I., red.; MASLYANITSYNA,

N.I., red.; PETRYAKOVA, T.D., red.

[Instruments, appliances, and mechanisms for assembling and special work] Instrumenty, prisposobleniia i mekhanizmy dlia montazhnykh i spetsial'nykh rabot. Moskva, Vol.2. 1962. 226 p. (MIRA 16:7)

1. Moscow. Gosudarstvennyy institut po vnedreniyu peredovykh metodov rabot i truda v stroitel'stve.

(Construction equipment)

## "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2

VOSTROV, V.N., inzh.

All-Union conference on modern industrial mathods of mnanfacturing and assembling pipe for industrial enterprises. . Stroi. truboprov. (MIRA 14:10) 6 no.10:30-31 0 '61. (Pipe-Congresses)

USSR / Weeds and Weed Control.

H

Abs Jour

: Ref Zhur - Biologiya, No 13, 1958, No. 58814

Author

: Yostrova, E.

Inst

: Not given

Title

: Chemical Weed Control by Aviation

Orig Pub

: Zemledeliye i zhivotnovodstvo Moldavii, 1957,

No 7, 67-68

Abstract

: Weed control in green fields of Moldavia with herbicides 2.4-D and 2M-4X sprayed from planes has been observed to be highly effective. It considerably increased the yield and saved labor and capital outlays in the kolkhoz's and sowkhoz's. Avio cultivation of agricultural crops with herbicides in the republic increased from 2.0

herbicides in the republic increased from 2.0 thousand ha in 1952 up to 11.6 thousand ha in 1956.

Card 1/1

173

L 461.82-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AP6016133

UR/0103/66/000/005/0037/0049 SOURCE CODE:

AUTHOR: Vostrova, E. I. (Frunze)

ORG: none

TITLE: Optimum processes in discrete systems containing elements with distributed parameters

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 37-49

TOPIC TAGS: optimal control, optimal automatic control, automatic control design, automatic control R and D, control theory, automatic control theory, OIFFERENCE EQUATION, computer APPLICATION

ABSTRACT: An optimal control problem is considered for a system described by equations for thermal conductivity of the following type:

$$\frac{\partial u_i}{\partial t} - a_i^2 \frac{\partial^2 u_i}{\partial x^2} = f_i \left( t, x, u_1, \dots, u_n, \frac{\partial u_1}{\partial x}, \dots, \frac{\partial u_n}{\partial x}, \alpha \right).$$

$$(0 < t \le T, \quad 0 < x < 1, \quad i = 1, \dots, n).$$

with given initial and boundary values. This class of problem can only rarely be completely solved by conventional methods; however, it appears possible to use computers and approximation methods to obtain a solution. It is therefore expedient to consider this problem, not in terms of partial or ordinary differential equations, but in terms

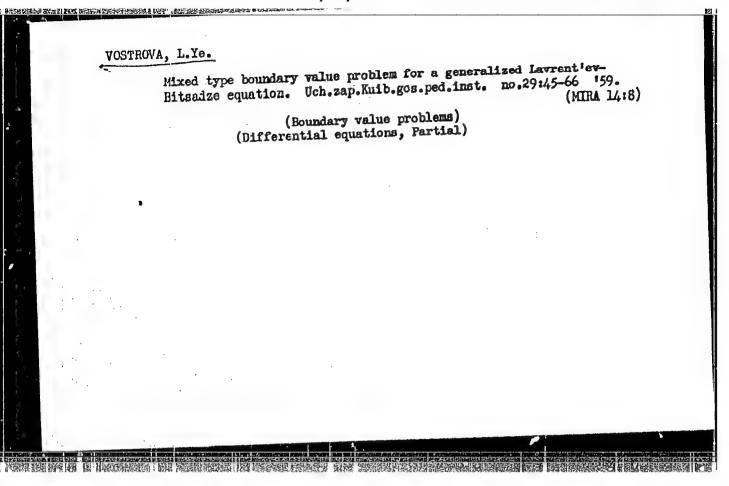
UDC: 62-504.2

Card 1/2

tem of diffe tion. An ex	nding difference erence equations sample of applications	e equations. The as and defines the parties for the device of the function and a theorem relation agreement a given syst	eloped technique als (utilized in	is included the solution	i. Formulas on of the ori-
SUB CODE:	13,12/ SUB	H DATE: 02Mar65/	ORIG REF:	004	
	•				
		•		•	
				•	
1					
Card 2/2	fv	•		4	

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2



5/044/61/000/003/009/014 163500 25006 0111/0333 Vostrova, L. Ye. AUTHOR \* The mixed boundary value problem for the general equation of Lavrent'yev-Bitsadze TITLE: Referativnyy zhurnal, Matematika, no. 3, 1961, 51, abstract 3B239 (Uch. zap. Kuybysheusk. gos. ped. in-t, PERIODICAL: 1959, vyp. 29, 45-66) TEXT: The author considers the equation  $u_{xx} + sgn y - u_{yy} + a(x,y) u_{x} + b(x,y) u_{y} + c(x,y)u = 0$ in the domain D. This is bounded: in the semiplane y > 0 by the curve f with the end points A(-1,0) and B(1,0), and in the semiplane y < 0 by the characteristic piece AC and BC. The author sets up the problem T: Determine a solution of (1) in D which satisfies the boundary conditions:  $\frac{\partial u}{\partial n} |_{\Gamma} = \varphi(s); u|_{BC} = \varphi(x)$ Card 1/2

The mixed boundary value problem ... 5/044/61/000/003/009/014 (R Ih Mat, 1959, 11079). The part of the domain D in which y > 0 (y < 0) is denoted with  $D_1(D_2)$ . It is proved that the solution of the problem is unique in a certain class of generalized solutions, if  $c \le 0$  in D, while in  $D_2$  it holds

$$a + b \le 0,$$

$$43 - a^{2} + b^{2} - 2a_{x} - 2a_{y} - 2b_{x} - 2b_{y} \le 0.$$
(2)

In the domain D, the Neumann problem is solved, while in the domain D, the solution of the Cauchy-Goursat problem is used which has been obtained by the reviewer (S.P.Pul'kin, R Zh Mat. 1958, 8874, 3B228). By continuous joining of these two solutions the author obtains a singular integral equation with the unknown function  $v(x) = \lim_{y \to 0} \frac{\Im u}{\Im y}$ . The existence of the solution of the integral equation follows from the uniqueness of the solution of problem  $T_3$ . If v(x) is known, then u(x,y) can be separately founded in D, and D. Card 2/2

VOSTROVA, L.Ye., Cand Phys Math Sci -- (diss) "Mixed boundary. problem for the Lavrent'yev-Bitsadze equation." Kazan', 1959, 6 pp (Min of Higher Education USSR. Kazan' Order of Labor Red Banner State Univ im V.I. Ul'yanov-Lenin) 150 copies (NL, 20-59, 122)

- 5 -

Gol'din, M. I., Vostrova, N. G.

Intranuclear Inclusions

SOT/20-128-1-49/58 A New Strain From the Group of Tobacco Mosaic Virus, Producing Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 183-185

PERIODICAL:

At the end of 1957 the authors found a virus not identical with the CI strain, producing inclusions not only in the plasma, but also in the nucleus. It was called after the place of its discovery: Kazakh strain of the group of tobacco mosaic virus. In the USSR this was the first time that a virus producing intranuclear inclusions was found. Apart from a number of important properties characteristic of the common virus, Kazakh virus also shows properties characteristic of a number of viruses different from the tobacco mosaic virus. The authors worked out a method which allows long lasting observations under the microscope in vivo. Cilia and the neighboring tissue of young tobacco plants infected with Kazakh virus were examined by means of this method. Figure 2 shows the various forms of inclusions in the protoplasm and in the nuclei of cilia. It could

card 1/3

17(2), 17(4)

ABSTRACT:

AUTHORS:

TITLE:

A New Strain From the Group of Tobacco Mosaic Virus, Producing Intranuclear Inclusions

be observed that the development of inclusions in a cilium starts at the basis and continues towards the top. The distribution of the inclusions as regards space and time, is irregular, even in homogeneous tissues. An irregular distribution of virus particles could be observed in cilia as well as in cells of the epidermis. It was found that the virus flagellum, a process of the intranuclear inclusion, has distinct and blunt ends. Flagella completely developed in the protoplasm, have pointed thin ends. Although the ends develop simultaneously and in the same medium, they differ in their structure. Apparently the flagellum protruding from the nucleus also contains some nuclear substances. Virus flagella in the nucleus protruding from it and surrounding it, as well as flagella developed in the protoplasm, show a negative reaction with Fel'gen's reagent. There are 2 figures and 6 references, 1 of which is Soviet.

ASSOCIATION: Card 2/3

Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology of the Academy of Sciences, USSR)

#### "APPROVED FOR RELEASE: 08/09/2001

PROFESSALIANTA CONTRACTOR OF PERCENTAGE STATES OF THE SAME OF THE

CIA-RDP86-00513R001861110001-2

PAVLOV, Fedor Fedorovich, prof.; VCSTROVA, Oliga Danilovns, kand. tekhn. nauk; GUDKOVA, Traida /noreyevna, kand. tekhn. nauk

[Higher geodesy; handbook on practical work (section on "triangulation")] Vysshaia geodeziia; posobie po prakticheskim rabotam (razdel "Trianguliatsiia"). Moskva, Mosk. gornyi in-t, 1961. 159 p. (MIRA 17:10)

1. Kafedra geodezii Moskovskogo gornogo instituta.

## "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2

VOSTROVA, Oliga Danilovna; PAVLOV, F.F., prof., otv. red.; NIKOLAYEVA, T.A., red.; VINOGRADOVA, V.A., tekhn. red.

[TT-50 and TOM theodolites, NV-1, NSM-2 and NP levels; their description and tests; laboratory manual] Teodolity TT-50 i Tom, nivelity NV-1, NSM-2 i NP, ikh opisanie i poverki; posobie k laboratornym rabotam. Moskva, Univ. druzhby narodov, 1963. 51 p. (MIFA 17:4)

VOSTROVSKY, J.; SIMON, L.; VOSOLSOBE, L.

The measurement of the velocity of "keramzite" balls in a rotary kiln by means of radioactive isotopes. p. 359. (STAVIVO, Vol. 35, No. 9, Sept 1957, Praha, Czechoslovakia)

SO: Monthly List of Fast European Accessions (FEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

# VOSTROVSKY I SIMON J.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application: Chemico-technological Problems

H-7

of Nuclear Engineering.

: Ref Zhur - Khimiya, No 3, 1958, 8564 Abs Jour

Simon Vostrovsky J. Author

Inst Production of Radioisotopes for Industrial Use. Title

Techn. praca, 1957, 9, No 2, 83-88 Orig Pub

General information is provided on radioactive isotopes, Abstract

their production, on nuclear reactions induced by the action of charged particles and by the action of neutrons. The following tables are included: activation of elements in a cyclotron; laboratory sources of neutrons; most important beta-radioisotopes produced in reactors; most important gamma-redioisotopes produced in reactors, and ex-

amples of the most often utilized radioactive isotopes.

Card 1/1

VOSTRUKHIN, N. P.

Vostrukhin, N. P.

"Changes in the properties of sod-podzolic soils under the influence of grass-field crop rotation." Belorussian Order of Labor Red Banner Agricultural Academy. Gorki, 1956 (Dissertation for the degree of Candidate in Agricultural Sciences)

Knizhnaya letoris No. 15, 1956. Moscow

VOSTAVA HINA, N.T.

USC2/Cultivated Plants - Technical, Oil, and Sugar Plants.

M-4

: Ref Zhur - Biol., No 3, 1958, 10917

Author :

Vostrukhina, N.P.

Inst

Title

: Sugar Beet Density in the Plantations of the Western

Oblast's of the BelSSR.

Orig Pub

: Sakharnaya svekla, 1957, No 4, 11-13

Abstract

: Field experiments conducted in 1951-1956 on the Garusovskaya Agricultural Testing Station (BeUSSR) have demonstrated that increasing the distance between rows from 45 to 60 cm. (reducing the plant density from 111 to 83.3 thousand per hectare) did not cause a reduction in the sugar beet yield and harvest but did reduce the manual labor input on crop maintenance by 9.4%. Increasing the space between rows, and using the square and square-nest methods of planting, permit ranual labor input to be

Card 1/2

#### 

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

4\_k

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10917

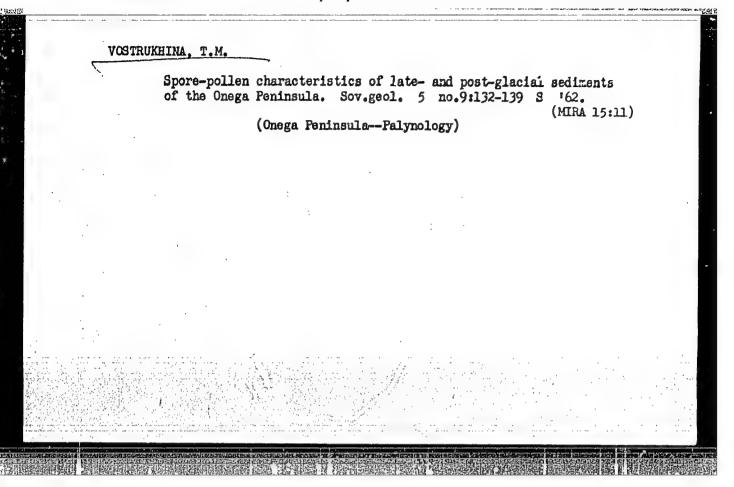
reduced more than 30%. It is emphasized that under Belorussian conditions increasing the density of sugar beet planting (100-120,000/hectare) is pointless and does not justify itself.

Card 2/2

VOSTRUKHINA, T.M.: LADYSHKINA, T.Ye.

New data on the study of Quaternary sediments in the Kem' region of Karelia. Dokl. AN SSSR 155 no. 3:559-561 Mr '64. (MIRA 17:5)

1. Gosudarstvennyy geologicheskiy komitet SSSR pri Vysshem Sovete narodnogo khozyaystva SSSR. Predstavleno akademikom V.N.Sukachevym.



VOSTRUKHINA, T.M.; LADYSHKINA, T.Ye.

Spore-pollen spectra and the diatom flora of glacial-lacustrine deposits of the southern part of the Kola Peninsula. Dokl.AN SSSR 145 no.5:1107-1109 '62. (MIRA 15:8)

l. Predstavleno akademikom V.N.Sukachevym.
(Kola Peninsula—leology, Stratigraphic)

Dating the glacial lacustrine deposits of the Onega Peninsula.

Dokl.AN SSSR 145 no.1:151-153 Jl '62. (MIRA 15:7)

1. Predstavleno akademikom V.N.Sukachavym.
(Onega Peninsula—Palebotany, Stratigraphic)

NIKONOV, A.A.; VOSTRUKHINA, T.M.

Quaternary stratigraphy in the northern part of the Kola Peninsula. Dokl. AN SSSR 158 no.1:104-107 S-0'64 (MIRA 17:8)

1. Geologicheskiy institut Kol'skogo filiala imeni S.M.Kirova AN SSSR. Predstavelno akademikom A.A. Grigor'yevym.

#### CIA-RDP86-00513R001861110001-2 "APPROVED FOR RELEASE: 08/09/2001

507/79-28-7-45/64 Yakubovich, A. Ya., Razumovskiy, V. V. AUTHORS:

Vostrukhina, Z. H., Rozenshteyn, S. M.

Syntheses of Vinyl Monomers (Sintezy vinilovykh monomerov) TITLE:

III.On the Syntheses of the Vinylesters From Acet- and Chloromercuroacetaldehydes, and on the Mechanism of These Reactions (III.0 sintezakh slozhnykh vinilovykh efirov iz atset-i khlor-

merkuratsetal'degidov i mekhanizme etikh reaktsiy)

Zhurnal obshchey khimii, 1958, Vol 28, Nr 7, PERIODICAL:

pp 1930 - 1936 (USSR)

The method of the reaction of acctaldehyde with the chlorine ABSTRACT:

anhydride of the corresponding acid in the medium of a tertiary base described by A.M. Sladkov and G.S. Petrov (Ref 1) could not be proved by the authors in any case. In using pyridine, for instance, neither the vinylbenzoate, vinylacetate nor the vinyl esters of butyric-, caproic- or chloroacetic acids were obtained although the conditions mentioned in carrying out the reaction were strictly followed. Besides, the crystalline de-

positions occurring in this reaction are not mentioned. The vinyl

Card 1/3

Syntheses of Vinyl Monomers. III. On the Syntheses of 30V/79+28-7-45/64 the Vinylesters From Acet- and Chloromercuroacetaldehydes, and on the Mechanism of These Reactions

esters of the phosphoric acids could be obtained by the reaction of the acetaldehyde with their chlorine anhydrides in the presence of triethylamine (Ref 3), the yield of vinylbenzoate amounting to 15% (Ref 3). In view of these facts another method of synthesis was tried (Ref 4) according to which the vinyl esters of a series of acids could be synthetized in good yields. Concluding the following results may be stated: In the synthesis of the vinyl esters of the carboxylic acids from acetaldehyde, acylchloride and pyridine only the chlorides of a-acyloxyalkylpyridinium could be obtained. In using triethylamine (instead of pyridine) with benzoylchloride a vinylbenzoate (yield 15%) was obtained. By the direct coupling of the halogen anhydrides of the acids to the aldehydes the following compounds were synthesized: a-chlorethylacetate, a-chlorethylbenzoate, chloromethylmethacrylate, brommethylmethacrylate, and α-chlorethylmethacrylate. This reaction is of general preparative character. By the reaction of monochloromercury acetaldehyde with the halogen anhydrides of the acids the vinyltrifluoracetate and the

Card 2/3

#### "APPROVED FOR RELEASE: 08/09/2001

## CIA-RDP86-00513R001861110001-2

Syntheses of Vinyl Monomers. III. On the Syntheses of SOV/79-28-7-45/64 the Vinylesters From Acet- and Chloromercuroacetaldehydes, and on the Mechanism of These Reactions

vinyl-p-cyanobenzoate were synthesized. There are 20 references, 8 of which are Soviet.

SUBMITTED:

June 3, 1957

- 1. Vinyl esters--Synthesis 2. Acetaldehyde--Chemical reactions
- 3. Chemical reactions-Analysis

Card 3/3

BUTTA, Hugo; VOSTRY, Bohumil

Electric power distribution in the metallurgical combine East Slovakia Steel Mills in Kosice. Energetika Cz 12 no.2:71-74 F '62.

1. Hutmi projekt, Praha.

ACC NR: AP7001706 SOURCE CODE: CZ/0092/66/017/006/0366/0369

AUTHOR: Vostry, J.

ORG: Mathematical and Physical Faculty of the Charles University, Prague

TITLE: Tuominen's modification of Babcock's theory of the solar magnetic field

SOURCE: Ceskoslovenska akademie ved. Byulleten' astronomicheskikh institutov Chekhoslovakii, v. 17, no. 6, 1966, 366-369

TOPIC TAGS: magnetic field, magnetic field measurement, solar magnetic field, sunspot, when activity

ABSTRACT: In Babcock's model of golar activity, the initial magnetic field is given by the form H0 = H8 sec \$\phi\$ on the solar surface. This if field has singularities at the solar poles. In accordance with Sporer's law, which was derived from this field, the sunspot activity begins at law, which was derived from this field, the sunspot activity begins at the heliographic latitude \$\phi = 45^{\circ}\$. This value is too high to agree the heliographic latitude \$\phi = 45^{\circ}\$. This value is too high to agree with observations. Tuominen suggested that magnetic fields H0 = H0 and with observations. Tuominen suggested these difficulties. Sporer's H0 cos\$\phi\$ be applied in order to overcome these difficulties. Sporer's law for these two cases and Gleissberg's law of migration in the heliographic latitude of the sunspot area are derived in the present paper. On the basis of Gleissberg's law, it is shown that the two magnetic

Card 1/2

ity the	of market of the	igrati ity of sunsp	on in	the ne. tion in ivity	rect descr liographic n the heli begins. G	Agranh	ite la	titude	of t	he ar	ea in
SUB	CODE:	03/	SUBM	DATE:	02Mar66/	ORIG	REF:	001/	OTH	REF:	009
		·. 				•					
	•								**		
	á							· ,			
								; :			
	• •			: •		<i>:</i>					•

VOSTRYAKOV, A.A.

AUTHOR:

Okunev, A.I., Usachev, N.M., Lutokhin, D.I., Kurts, V.V., redotova, Y.I. and Vostryakov, A.A.

Results of Industrial Tests on the Smelting of Roasted Collective Copper-Zinc Concentrates. (Rezul taty promy-·TITLE:

shlennykh ispytaniy plavki obozhzhennykh kollektivnykh

medno-tsinkovykh kontsentratov)

Tsvetnye Metally, 1957, no.2, pp. 22 - 31 (USSR) PERIODICAL:

ABSTRACT: The use of flotation for concentrating many Ural copperzinc ores has led to the production of copper concentrates containing as much as 10-12% with copper contents of 8-10%. The aim of the present work was to test the smelting of roasts of such concentrates in a full-scale reverbatory furnace to give a zinc slag. The experimental furnace used was at the Sredneural'skiy Works and had a hearth area of about 8 m2, chrome-magnesite walls and hearth and silica roof and was fired with coal dust. The following main results were obtained in 2.5 - 3 months' work with concentrates containing 7-9% Cu and 6 - 15% Zn to give slags with 14-15% Zn. The results of laboratory investigations on zinc distribution between slag and matte in relation to their compositions were confirmed. When mattes contained 40 - 50% Cu, the zinc content in the slag was about 1.6 - 1.8 times greater than in the matte. 1/3

2/3

Results of Industrial Tests on the Smelting of Roasted Collective Copper-zinc Concentrates.

optimal compositions of matte (45% Cu) and slag as well as the degree of de-sulphorisation needs one of the main requirements, even when roasting and smelting are carried out in one unit. With deep roasts 80% of the zinc goes from the solid charge into the slag, 8.9% into the matte and 8-12% into the gas. With a 45-50% Cu matte the copper content of dumped slags was 0.7%; extraction of copper into the matte depends on the copper content of the concentrate and can be 90-93% with return of dust to the smelter, and up to 96-97% with treatment of the zinc slag. Extraction of noble metals was about the same as with raw or lightly-caloried charge.

Average dust production is 4.5% of the charge weight and there can be up to 20-24% zinc in it (depending on the zinc content of the charge). Optimal sulphur content of the roast is 9-10% (2.0 - 2.5% sulphate sulphur); de-sulphurisation during smelting is 48-56%. Good separation of smelting products was always obtained, but observations on the state of the hearth suggest desirable design changes. Besides tabulation of materials analysis and metals balance graphs of zinc distribution vs matte copper content, of copper content in matte and slag vs time and of product temperatures vs time are given.

Results of Industrial Tests on the Smelting of Roasted Collective Copper-zinc Concentrates.

Information on productivity, fuel rates and behaviour of refractions is included.

3/3 There are 3 figures, 5 tables and 3 references, of which 1 is Slavic.

Unipromed' and the Sredneural'skiy Copper Smelting Works. (Unipromed' i Sredneural'skiy Medeplavilnyy ASSOCIATION:

Zavod)

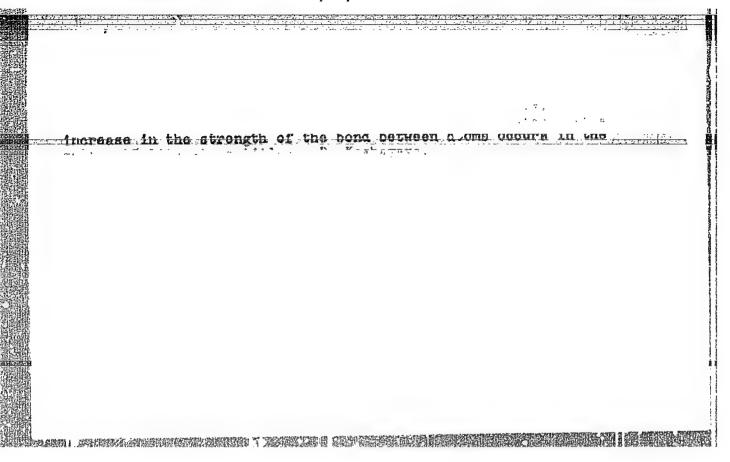
AVAILABLE: Library of Congress

VOSTRYAKOV, A.A. (Sverdlovsk); VATOLIN, N.A. (Sverdlovsk); YESTN, O.A. (Sverdlovsk); KONOVALOV, G.F. (Sverdlovsk)

Electromagnetic separation of FeSn<sub>2</sub> crystals from liquid tin. Izv. AN SSSR. Met. no.6:58-61 N-D '65. (MIRA 19:1)

1. Submitted June 3, 1964.

AU UESE 101 BRA SARFOOLI (68
SOURCE: Ref. zh. Metallurgiya, Abs. 10A3
AUSHOR: Vostryakov, A. A.; Vatolin, N. A.; Tgnatenko, G. B.
LILL V. I. TE F STOR USE LANGUERO - TAMPENANGALE II. V. V.
THE STATE OF THE S



VOSTRYAKOV, A.A.; VATOLIN, N.A.; YESIN, O.A.

Viscosity and electric resistance of manganese alloys with silicon,
and carbon. Zhur. neorg. khim. 9 no.8:1911-1914 Ag '64.

(MIRA 17:11)

3/126/63/015/002/010/033 E195/1305

Atritions:

Vatolin, N.A., Vostryakov, A.A. and Yesin, C.A.

TITLE:

Viscosity of liquid iron-carbon alloys

PERIODICAL:

Fizika metal'ov i metallovedeniye, v. 15, no. 2,

1963, 222 - 228

The method of attenuation of torsional oscillations of a crucible containing the molten alloy was used to determine the effect of composition and temperature on the viscosity of iron-carbon alloys. The experimental materials contained up to 5% C and the tests were conducted at 1270 to 1720 results (side-by-side with those obtained by other-workers) are reproduced in Fig. 2, where the viscosity (. : 10 polse) is plotted against the C content of the alloy, the various curves relating to data obtained by: 1-parfield and Kitchener (J. lron and Steel Inst., 1955, 4, 324); 2-Purove iy and Lyubimov (lzv. vuzov, Chernaya metallur\_iyi, 1960, ac. 2, 15 : 5-wen Li-thih and Arsent'yev (Izv. vuzov, Cherrayo etal.ur.iya, .... Thielmon and limer jutchl. u. disen, 1747, 17, 2011 the present authors in tests of 1 1,150, loc and 107. Card 1/3

5/126/63/015/00=/-11 E195/E385

Viscosity of ....

curve 9 represents the concentration-dependence of the free volume (cm /g.at., right-hand scale) of the alloy. It will be seen that at each test temperature a sharply decreases as the C content increase from the adjacent the again. Author the follows the compact of the end of the of the free volume of the arrow, true is no quartic tive variation in the filter W. . This and other considerations led the present authors conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the shape of the viscosity isotherms of the conclusion that the conclu carbon and other alloys could not be explained by the free-vocame of the liquid increasing with increasing carbon content, and that the special change in the order of the atomic interaction, Prought white wy a special transfer to the moit, it is 62 mich speiter - , ot mee-

ASSOCIATION:

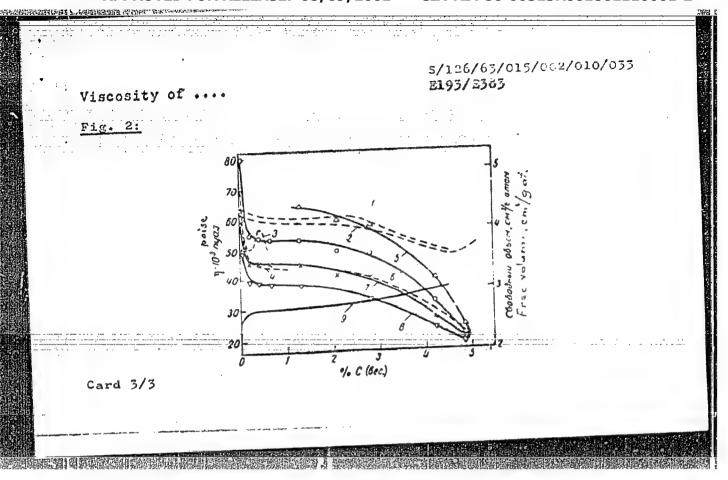
Institut metallurgil . Al Las be

Metallurgy, UFAN, USSR)

SUBMITTED:

July 11, 1962

Card 2/3



29827 8/020/61/140/006/028/030 B103/B101

5.2200

AUTHORS: Okunev, A. I., Galimov, M. D., and Vostryakov, A. A.

TITLE: Oxidation and volatilization processes of germanium sulfides

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 6, 1961, 1384-1387

TEXT: The authors studied: A) oxidation of  $GeS_2$ , B) sublimation of  $GeS_2$  in neutral atmosphere, and C) oxidation of  $GeS_2$ . To A): The thermogravimetric method and an apparatus described previously (A. I. Okunev, thermogravimetric method and an apparatus described previously (A. I. Okunev, thermogravimetric method and an apparatus described previously (A. I. Okunev, thermogravimetric method and an apparatus described previously (A. I. Okunev, thermogravimetric method and an apparatus of  $GeS_2$  in a case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in case A) as portions of 100 mg were heated with a rate of 6-11 deg/min in c

Card 1/5/4/

29827 \$/020/61/140/006/028/030 B103/B101

Oxidation and volatilization ...

in all ranges up to 667°C, whereby basic sulfates GeO2.Ge(SOA)2 may be formed. Reaction (2) does not take place in range V, but GeS, is rapidly further oxidized to the dioxide according to reaction (1). Moreover, the sulfate interacts with the initial sulfide, whereby GeO2 is formed:  $GeS_2 + 3Ge(SO_4)_2 = 4GeO_2 + 8SO_2$ . At the same time, the sulfate decomposes with formation of GeO2. Above 670°C, GeO2 is the final product. Oxidation is not yet completed at 720°C (attains 80 %), since it is strongly inhibited by fusion of the weighed portion. Sulfate formation is most intensive in ranges I and III, whilst oxidation proceeds much slower in range IV, since a film of GeO2 and Ge(SO4)2 forms on the surface. In this instance,  $Ge(SO_4)_2$  is not decomposed. Conclusions:  $Ge(SO_4)_2$  is rather stable and begins to decompose with increasing temperature in the presence of the sulfide only at 670°C. Under these circumstances, it has been found at 440, 455, 500, 525, 570, 625, 675, and 690°C that GeS, is oxidized within the first 10-20 min, whereupon SO, separation ceases. The highest content Card 2/5

\$/020/61/140/006/028/030 B103/B101

Oxidation and volatilization...

of  $Ge(SO_4)_2$  was reached in the oxidation products at 525°C. Above 530°C, Ge(SO<sub>4</sub>)<sub>2</sub> begins to decompose, when further heated. At 570°C, the sulfate content increases gradually within the first 20 min and decreases, when this temperature is further conserved. This is due to both interaction with the residual sulfide and dissociation. At all temperatures, the sulfide content does not exceed 30 %. To B) The weight of GeS2 decreases significantly in oxygen-free N2 only above 700°C (by 11 %). This loss attains 45 % at 800°C to decrease abruptly at 830-850°C owing to fusion. The product of GeS2 dissociation (at 500-600°C) is a dark grey powder of GeS-like appearance. The oxidation curve of this powder is similar to that of GeS. GeS2 sublimates at 650°C with constant rate during the entire test time. To C): A small quantity of SO2 is separated at 440°C with heating rates of 3.6, 6.0, and 8.4 deg/min. Then, S separation becomes irregular; it increases suddenly at 560 and 625°C. The main process is here  $GeS + 20_2 = GeO_2 + SO_2$ , whereby  $\Delta P = 0$ . GeS is oxidized both

Card 3/8

8/020/61/140/006/028/030 B103/B101

Oxidation and volatilization ...

in solid and after sublimation also in gaseous phase. Germanium sublimates should be oxidized under productional conditions in gaseous phase, as long as the sulfide particles are still in disperse phase. There are 4 figures, 1 table, and 12 references: 7 Soviet and 5 non-Soviet. The two references to English-language publications read as follows: R. B. Bernstein, D. Cubiceitty, J. Am. Chem. Soc., 73, 4112 (1951); Eng. and Mining J., 157, No. 5, 77, 1956.

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy projektnyy institut

mednoy promyshlennosti (Ural Scientific Research and Planning

Institute of the Copper Industry)

April 4, 1961, by S. I. Vol'fkovich, Academician PRESENTED:

April 3, 1961 SUBMITTED:

OKUNEV, A.I.; GALIMOV, M.D.; VOSTRYAKOV, A.A.

Processes of oxidation and volatilization of germanium sulfides.

Dokl. AN SSSR 140 no.6:1384-1387 0 61. (MIRA 14:11)

1. Ural'skiy nauchno-issledovatel'skiy proyektnyy institut mednoy promyshlennosti. Predstavleno akademikom S.I.Vol'fkovichem. (Germanium sulfide)

# OKUNEV, A.I.; VOSTRYAKOV, A.A. Some problems in the treatment of Ural copper-zinc concentrates in a fluidized bed. TSvet. met. 30 no.11:24-29 N '57. (MIRA 10:11) 1. Unipromed'. (Gopper--Metallurgy) (Zinc--Hetallurgy) (Fluidization)

# VOSTRYAKOV A.A.

136-11-7/17 Okunev, A.I. and Vostryakov, A.A.

Some Problems Concerning the Treatment of Ural Copper-zinc AUTHORS: Concentrates i the Suspended State (Mckotoryye voprosy TITLE:

pererabotki Ural'skikh medno-tsinkovykh kontscntratov

vo vzveshennom sostoyanii)

Tsvetnyye Metally, 1957, No.11, pp. 24 - 29 (USSR).

In this article, theoretical and practical data are used PERIODICAL: for the construction of material and heat balances, the discusseion of the distribution of zinc between the roducts of oxygen ABSTRACT: smelting of copper-zinc concentrates, the analysis of copper recovery, furnace design and other problems. The balances show that for concentrates with 40% S to produce 70% SO, gases

smelting with oxygen leads to excessive temperatures: matter and gas with 40-50% SO3 are reconsended and the possi-

bility of preliminary roasting to produce elementary sulphur is considered. Analysis of zinc transfer into the gas phase showed that with low-sulphur concentrates when the temperature does not exceed 1 300 - 1 400 °C, 3-18% of the zinc enters the gas phase, 75-85% the slag and the rest the matte; with high-sulphur concentrates 40% of the zinc enters the gas phase but sulphur concentrates 40% of the zinc enters the gas phase but Card1/2

136-11-5/17

Some Problems Concerning the Treatment of Ural Copper-zinc Concentrates in the Suspended State

the slag. Thus, in both cases, oxygen smelting offers the possibility of producing a zinc slag with roasting and smelting being effected together in one plant. For Ural copper-zinc concentrates, smelting with oxygen can be effected to give relatively lean (25-35%) matter (high copper recovery without de-coppering the slag with pyrites); copper can be extracted from rich matter by burning high sulphur concentrates; fuming is another possibility considered. Flash roasting, it is suggested, could lead to simplification of furnace construction, now being studied by the Uniproned', UFAN, Giprotsvetmet and other institutes. In the article, conditions for smelting Ural copper and copper-zinc concentrates with hot blast, cxygen-enriched blast and blast both hot and oxygen-enriched have been formulated: a temperature of 400°C or an oxygen content of 30% are necessary. The construction of the appropriate flash-roasting plant at the Urals Works is recommended.

There are 5 figures, 2 tables, 4 Russian and 1 English references.

ASSOCIATION: Unipromed'

AVAILABIE: Card 2/2

的数据证据等的和连续们可能还是是"共和国的证据的"。更为证据也,并不是"中心"。 "

Library of Congress

1. Copper zinc concentrates-Treatment 2. Furnaces-Preparation

3. Furnaces-Construction

137-58-6-12023

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 119 (USSR)

AUTHOR:

Okunev, A.I., Vostryakov, A.A., Aglitskiy, V.A.,

Travnikova, L.B.

TITLE:

Fundamental Factors Influencing the Selection of Optimal Composition of Matte and Slag During Processing of Copperzinc Cinders in Reverberatory Furnaces (Osnovnyye faktory,

opredelyayushchiye vybor optimal'nogo sostava

shteyna i shlaka pri pererabotke medno-tsinkovykh ogarkov v

otrazhatel'nykh pechakh)

PERIODICAL:

Tr. i materialy. Ural'skiy n.-i. i proyektn. in-t medn. prom-

sti, 1957, Nr 2, pp 365-372

ABSTRACT:

A brief examination of the fundamental factors that influence the selection of matte (M) and slag composition during processing of Cu-Zn concentrates in accordance with the following procedure: deep-penetration roasting-smelting-fumigation. The selection of an optimum M composition in smelting of roasted Cu-Zn concentrates is dictated by the following basic factors: 1) Variation in distribution of Zn between the slag and the M depending on the composition of the latter: 2) variation in specific

Card 1/2

137-58-6-12023

Fundamental Factors Influencing the Selection of Optimal Composition (cont.)

gravity of the M depending on its composition: 3) a change in the melting point of the M; 4; a change in the fluidity of the M. It is noted that the distribution of Zn is favorably affected by an increase in the Cu content of the M and that it is most desirable that the Cu content be maintained at the highest possible value (up to 60-80%). The specific gravity of liquid M increases continuously with increasing Cu content. M's containing maximum possible amounts of Cu are best scited for efficient separation of M and slag, whereas M's containing 40-45% of Cu are most desirable from the point of view of fusibility of the M. These same M's also exhibit the best fluidity. Taking all factors presented into consideration one may state that the optimal value of Cu content in M's constitutes 45%. In reverberatory-furnace smelting of Cu-Zn concentrates the slags must contain 32-34% (or less) of SiO2 depending on the Zn content.

G.S.

1. Copper ores--Processing 2. Zinc ores--Processing 3. Slags--Composition

4. Slags--Properties

Card 2/2

VOSTRYAKOV, A.A.; VATOLIN, N.A.; YESIN, O.A.

Viscosity and electric resistance of liquid iron alloys with phosphorus and sulfur. Fiz. met. i metalloved. 18 no.3:476(MIRA 17:11)
478 9 64.

1. Institut metallurgii, Sverdlovsk.

VOSTRYAKOV, A.A.; VATOLIN, N.A.; YESIN, O.A.

Viscosity and electric resistance of liquid chromium alloys. Fiz. met. i metalloyed. 16 no.5:675-680 N '63. (MIRA 17:2)

1. Institut metallurgii Ural'skogo filiala AN SSSR.

	Ignition temperature of sulfide concentrates. no.5:72-73 My 161.		TSvet. met. 34 (MIRA 14:5)	
	1. Unipromed 1.	(Sulfides—Metallurgy)		
	· :			
<u> </u>				
	•			

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2"

OKUNIV, A.I.; VOSTRYAKOV, A.A.; AGLITSKIY, V.A.; TRAVNIKOVA, L.B. Basic factors determining the choice of the best matte and slag composition for processing copper-sine tailings in reverberatory furnaces. Trudy Unipromedi no.2:365-372 '57. (MIRA 11:11) (Copper Metallurgy) (MIRA 11:11)

Vostryakov, A.A.; usachev, N.M.; lutokhin, D.I.; kurts, V.V.; yedotova, Ye.I.;

Okunev, A.I.; usachev, A.A.

Results of industrial tests for smelting roasted copper-qinc collector concentrates. Tsvet. met. 30 no.2:22-31 y '57. (Mira 10:4)

1. Unipromed' i Sredneural'skiy medeplavil'nyy savod.

(Copper-Metallurgy) (Zinc-Metallurgy)

s/0126/63/016/005/0675/0680

ACCESSION NR: AP4004688

AUTHORS: Vostryakov, A. A.; Vatolin, N. A.; Yesin, O. A.

TITLE: Viscosity and electrical resistance of molten chromium alloys

SOURCE: Fizika metallov i metallovedeniye, V. 16, no. 5, 1963, 675-680

TOPIC TAGS: molten chromium alloy, chromium alloy, viscosity, electrical resistance, composition, molten alloy, molten alloy viscosity, molten metal viscosity

ABSTRACT: The variation of kinematic viscosity and electrical resistivity of liquid Cr-alloys with Fe, C, and Al with respect to temperature and Cr content was studied by the torsional oscillation method (of crucible with the melt). The alloys were prepared of technically pure iron, chromium obtained by the alumothermal method, electrolytic sluminum, and pure graphite. These materials were melted in a resistance oven filled with helium. Kinematic viscosity and electrical resistivity were calculated by the Ye. G. Shvidkovskiy (Nekotory\*ye voprosy\* resiscivity were calculated by one is. J. Shvidkovskiy (herotorywys voprosyk vyszkosti rasplavlenny\*kh metallov, GITTL, 1955) and A. R. Regel: (ZhTF, 1948, 18, 1511) formulas. It was established that: 1) the viscosity and activation energy isotherms of liquid Fe-Cr had minima corresponding to those on the line of liquidisotherms of liquid Fe-Cr had minima corresponding to those on the line of liquidisotherms of liquid Fe-Cr had minima corresponding to those on the line of liquidisotherms of liquidisotherms of liquidison of carbon-free ferrochrome increased suddenly at a Cr content liquidison of liqu

ACCESSION NR: AP4004688

exceeding 40% due to the ability of the alloy to absorb gases and to enter into reactions with refractory materials; 3) the viscosity of a carbon-satur ted ferrochrome increased considerably at 1550C; this is explained by the separation of the solid carbon phase; 4) the viscosity of ferrochrome containing 5% of C showed a stronger increase with the increase in Cr concentration than in the Fe-Cr system; this is assumed to be due to the formation of chromium carbides; 5) the viscosity isotherms of the Fe-C system had a minimum at 3.5% C; the increase in temperature from 1400 to 1600C caused the rise in the minimum; 6) the electrical resistance of carbon-free ferrochrome is somewhat lower than that of the carbon-containing alloys. In both cases the resistance is almost independent of the Cr content. Orig. art.

ASSOCIATION: Institut metallurgii UFAN SSSR (Institute of Metallurgy UFAN SSSR)

SUBMITTED: 17May63

DATE AQ: 03Jan64

ENCL: 00

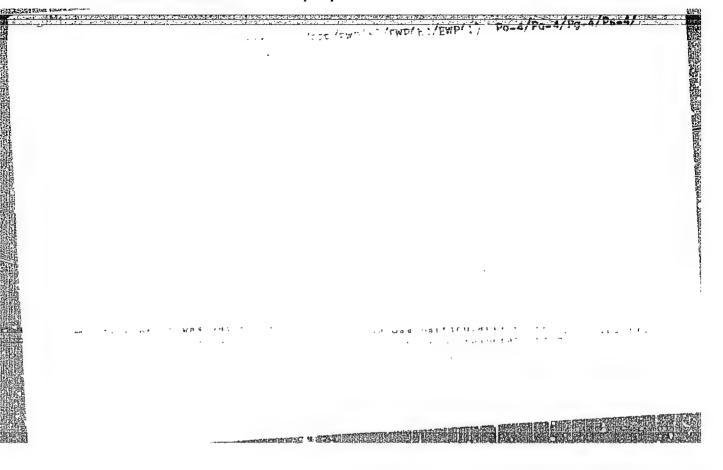
SUB CODE: ML

NO REF SOV: 015

OTHER: 007

Card 2/2

## "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110001-2



## "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110001-2



VOSTRYAKOV, A. V.

"Problem of the Most Recent Movements of the Earth's Crust in the Lower Volga Region," Dokl. AN SSSR, 89, No.5, 1953. pp 905-907

States that regression of the Akchagil' Sea could not have been simply of a local character, but seems to reflect an occurrence which had taken place in the entire character, but seems to reflect an occurrence which had taken place in the entire character, but seems to reflect an occurrence which had taken place in the encountered Alchagil' basin, as is verified by the fresh water mollusks and fine gravel encountered Alchagil' basin, as is verified by the fresh water mollusks and fine gravel encountered in the middle part of the Akchagil' deposit in Kashkentoy Chal and Gaysin. Consequently, in the middle part of the Akchagil' Sea has now been established for the Lower Volga a two fold regression of the Akchagil' Sea has now been established for the Lower Volga Region. Presented by Acad D. S. Belyankin.

## VOSTRYAKOV. A.V.

400. ANERTY 20 B.S. L. (1900) 20 B.S. L. (1900)

The northern boundaries of marine apsheron deposits. Dokl.AN
SSSR 103 no.6:1081-1084 Ag 155.

(MLRA 9:1)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshev-skogo. Predstavleno akademikom N.M. Strakhovym.

(Caspian sea region--Geology, Stratigraphic)

VOSTRYANOV. A.V., MIZINOV, I.V., MOSKVITIN, A.I., CHGURYATEVA, A.A.

Climatic cenditiems of the akchagyl stage based on new lithological and micropaleobotanical investigations in the southern gical and micropaleobotanical investigations in the southern gical and micropaleobotanical investigations in the southern gical and screen polynomials of the southern gical and screen polynomials in the southern gical and screen g

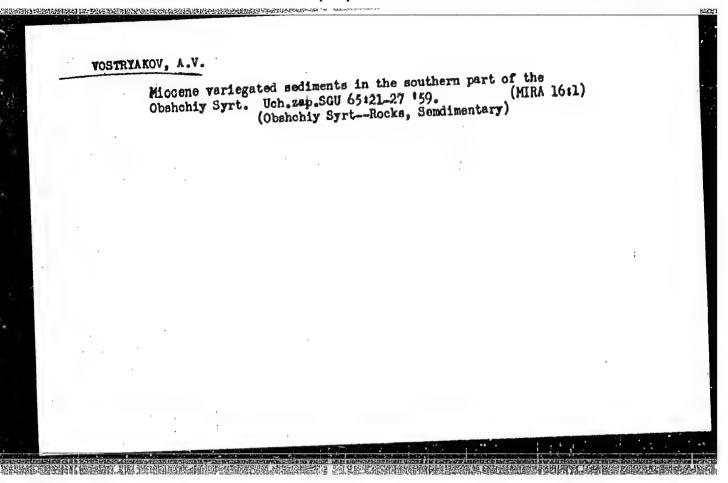
VOSTRYAKOV, A.V.

的对比时间更新主动程序而主义。这么是是可以不是可以不是少年的地方的。

Contact of Akchagyl and Apsheron sediments in the lower trans-Volgaregion. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:94-97 (MIRA 12:6)

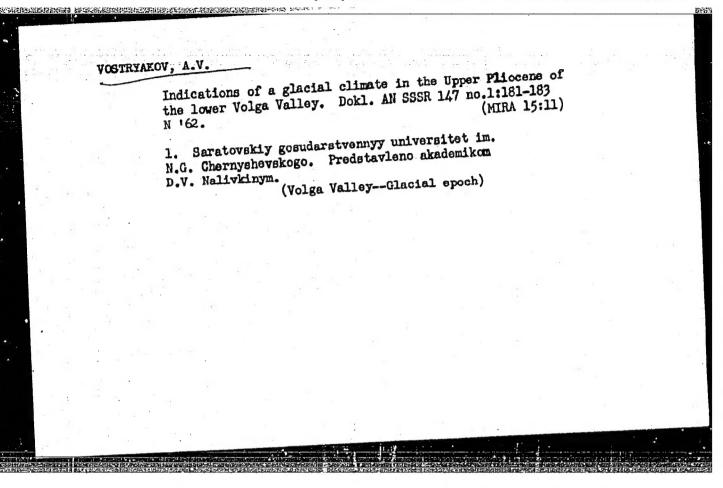
1. Saratovskiy universitet, geologicheskiy fakul'tet, kafedra obshchey geologii i poleznykh iskopayemykh.

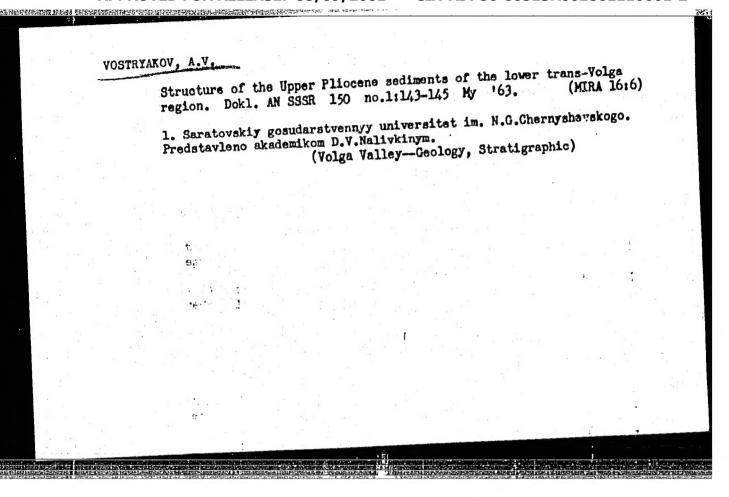
(Volga Valley-Geology, Stratigraphic)



### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110001-2

VOSTRYAKOV, A.V. Buried karst topography of the southern part of Obshchiy 3yrt and adjoining parts of the Caspian Lowland. Uch.zap. SGU 74:231-286 (MIRA 15:7) (Caspian Lowland-Karst) 160.





GERASIMOV, I.P., akademik, red.; MESHCHERYAKOV, Yu.A., red.;
VOSTRYAKOV, A.V., red.; CORELOV, S.K., red.; DUMITRASHKO,
VOSTRYAKOV, A.V., red.; KORZHENEVSKIY, A.A., red.; NAUMOV, A.D., red.;
TIMOFEYEV, D.A., red.

[Problems of planation surfaces] Problemy poverkhnostei vyravnivaniia. Moskva, Nauka, 1964. 221 p. (MIRA 17:8)

1. Akademiya nauk SSSR. Geomorfologicheskaya komissiya.

## "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110001-2

